

1600

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/873,367B

DATE: 03/05/2003

TIME: 12:07:50

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\03052003\1873367B.raw

- 3 <110> APPLICANT: Young, Paul
- 4 Soppet, Daniel
- 5 Endress, Gregory
- 6 Augustus, Meena
- 7 Ebner, Reinhard
- 8 Carter, Kenneth
- 10 <120> TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using Signature Gene
 - 11 Sets
 - 13 <130> FILE REFERENCE: 689290-64
 - /15 <140> CURRENT APPLICATION NUMBER: US/09/873,367B
 - 15 <141> CURRENT FILING DATE: 2001-06-05
 - 15 <150> PRIOR APPLICATION NUMBER: U.S. 60/236,891
 - 16 <151> PRIOR FILING DATE: 2000-09-29
 - 18 <150> PRIOR APPLICATION NUMBER: U.S. 60/236,842
 - 19 <151> PRIOR FILING DATE: 2000-09-29
 - 21 <150> PRIOR APPLICATION NUMBER: U.S. 60/244,867
 - 22 <151> PRIOR FILING DATE: 2000-11-01
 - 24 <150> PRIOR APPLICATION NUMBER: U.S. 60/245,084
 - 25 <151> PRIOR FILING DATE: 2000-11-01
 - 27 <160> NUMBER OF SEQ ID NOS: 1067
 - 29 <170> SOFTWARE: PatentIn version 3.0

Does Not Comply
Corrected Diskette Needed

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DATE: 03/05/2003 TIME: 12:07:51

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Input Set : N:\EBONY'S\EP.txt

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Input Set : N:\EBONY'S\EP.txt

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Input Set : N:\EBONY'S\EP.txt

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DATE: 03/05/2003 PATENT APPLICATION: US/09/873,367B TIME: 12:07:52

Input Set : N:\EBONY'S\EP.txt

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PATENT APPLICATION: US/09/873,367B TIME: 12:07:52

DATE: 03/05/2003

Input Set : N:\EBONY'S\EP.txt

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Input Set : N:\EBONY'S\EP.txt

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E>	54813	cgggacattt	agatatattt	gtgtacatat	tatatgtatg	tatatttcaa	agtaccacac	4980	100
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Input Set : N:\EBONY'S\EP.txt

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			cctccagatg					360	
			tggaaccaga					420	
			gtggatggca					480	
			acattggacg				ccagctcctc .	540	
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			gagttggttt					660	
			tccaagccag					720	h - c
			ctggccaggg					780	110>
			gggagactga					840	, , -
			ggttcgacgt					900 960	10
			gtgaggtcag					1020	ntt
			ttagggtaat cctctgtgag					1080	\mathcal{O}^{V}
			accetettet					1140	
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			cagggcttgt					1440	
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PATENT APPLICATION: US/09/873,367B

DATE: 03/05/2003 TIME: 12:07:54

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E> E> E> E> E> E> E> E>	64206 64209 64211 64212 64214 64216 64218 64220 64224 64224 64224 64236 64232 64234 64236 64232 64234 64240 64242 64244	<213> ORGAN <400> SEQUE gccgtgtcgc tggcgctgtg gccccagggg accccgagtt tcgatctggt tcatcctgaa tgggcaatga atgactacct ccttcctagg tcaagcacgt gtgtggtccg tcatcctgga accgagtgca ccaagccggc agctggccaa ctgatgagaa acggcaaaga aggctgccct	NISM: Homo sence: 810 caccatgget cgcgctgtcg cgggtgcccg cctcaaggca gcccgtgccc gacagtgcag gtgcagccag gtacccaac tgccaccgag cctgggcac cggcaccaac gctggcacc gccaccaac cgcaccaac cgcaccaac cgcaccaac cgtgtctgag tctgcctcac gctctacaag cccttcgcc tgggaaaatc caaaacagcc	ccgcaccgcc ctgcccgtcc aggcgcggcc gggaaggagc accaaccttt ctgaggaacg gatgagagcg gccgtgcagc tctggcctga gaggtggtgg gtacctgtgt aacatccacc gtgtccaagg gagggcactg ggtaccgagg gtctccaatg cagggggccc tttgtctgga tctgacttca	gegeggeeae caacagcatg ctggcetgea atggagactt gaaatetgea gggeggeege acegtgaggt agtacaagaa tgeagagaet cetgggagag agtggtgtgg geateeggga ageeeggga ageeegagge acacegeeaa gtgeagggae tgaagteaga aaggeaagea teaceaagat	tgcgtcgcgg gtggtggaac gatctggcgt cttcacggc gtatgacctc catctttacc ccagggcttc aggaggtgtg cttccaggtc cttcaacaat ttccaacagc caacgagcgg gatgctccag ggaggatgcg catgtccgtc ggactgcttc ggcaaacacg ggactacccc	ggggcgtccc 180 70 gtggagaagt gacgcctacg cactactggc gtgcagctgg gagtcggcca gcatcaggat aaagggcggc ggcgactgct aatcggtatg agtggccggg gtgctgggc gccaaccgca tccctcgtgg atcctggacc gaggagagga	120 240 300 360 420 480 540 600 660 720 780 840 900 960 1020 1080	nos off
E> E> E> E> E> E> E> E>	64206 64209 64211 64212 64214 64216 64218 64220 64222 64224 64224 64236 64232 64234 64236 64234 64240 64242 64244	<213> ORGAN <400> SEQUE gccgtgtcgc tggcgctgtg gccccagggg accccgagtt tcgatctggt tcatcctgaa tgggcaatga atgactacct ccttcctagg tcaagcacgt gtgtggtccg tcatcctgga acagactgaa cccagagtgca ccaagccggc agctggccaa ctgatgagaa acggcaaaga aggctgccct aggtctcggt	NISM: Homo sence: 810 caccatgget cgcgctgtcg cgggtgcccg cctcaaggca gcccgtgccc gacagtgcag gtgcagccag gtacccaac tgccaccgag cctgggcaac ggcaccaac ggctactcaag cctgggcaac gcctgggcaac gcctgcccac cggcaccacag cctgggcaac cctgcctgca ccttcctgcc tgggaaaatc ccaaacagcc ccttcctgag	ccgcaccgcc ctgcccgtcc aggcgcggcc gggaaggagc accaaccttt ctgaggaacg gatgagagcg gccgtgcagc tctggcctga gaggtggtgg gtacctgtgt aacatccacc gtgtccaagg gagggcactg ggtaccgagg gtctccaatg cagggggccc tttgtctgga tctgacttca ggcggtgaga	gegeggeeae caacagcatg ctggeetgea atggagaett gaaatetgea gggeggeege acegtgaggt agtacaagaa tgeagagaet cetgggagag agtggtgtgg geateeggga ageeegagge acacegeeaa gtgeagggae tgaagteaga aaggeaagea teaceaegtt	tgcgtcgcgg gtggtggaac gatctggcgt cttcacgggc gtatgacctc catctttacc ccagggcttc aggaggtgtg cttccaggtc cttcaacaat ttccaacagc caacgagcgg gatgctccag ggaggatgcg catgtccgtc ggactgcttc ggcaaacacg ggactacccc caagcagttc	gggqcgtccc 180 70 gtggagaagt gacgcctacg cactactggc gtgcagctgg gagtcggcca gcatcaggat aaagggcggc ggcgactgct aatcggtatg agtggccggg gtgctgggc gccaaccgca tccctcgtgg atcctggacc gaggagagga	120 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140	nos off
E> E> E> E> E> E> E> E>	64206 64209 64211 64212 64214 64216 64218 64220 64222 64224 64224 64236 64236 64236 64236 64240 64242 64244 64246 64248	<pre><213> ORGAN <400> SEQUE gccgtgtcgc tggcgctgtg gccccagggg accccgagtt tcgatctggt tcatcctgaa tgggcaatga atgactacct ccttcctagg tcaagcacgt gtgtggtccg tcatcctgga aaagactgaa accgagtgca ccaagccggc agctggccaa ctgatgagaa acggcaaaga aggctgccct aggtctcggt ggcgggaccc</pre>	NISM: Homo sence: 810 caccatgget cgcgctgtcg cgggtgcccg cctcaaggca gcccgtgccc gacagtgcag gtgcagccag gtacccaac tgccaccgag cctgggcac cggcaccaac gctggcacc gccaccaac cgcaccaac cgcaccaac cgcaccaac cgtgtctgag tctgcctcac gctctacaag cccttcgcc tgggaaaatc caaaacagcc	ccgcaccgcc ctgcccgtcc aggcgcggcc gggaaggagc accaaccttt ctgaggaacg gatgagagcg gccgtgcagc tctggcctga gaggtggtgg gtacctgtgt aacatccacc gtgtccaagg gagggcactg ggtaccgagg gtcccaatg cagggggccc tttgtctgga tctgacttca ggcggtgaga gatggcctgg	gcgcggccac caacagcatg ctggcctgca atggagactt gaaatctgca gggcggccgc accgtgaggt agtacaagaa tgcagagact cctgggagag agtggtgtgg gcatccggga agcccgaggc acaccgccaa gtgcagggac tgaagtcaga aaggcaagca tcaccaagat ccecactgtt gcttgtccta	tgcgtcgcgg gtggtggaac gatctggcgt cttcacgggc gtatgacctc catctttacc ccagggcttc aggaggtgtg cttccaggtc cttcaacaat ttccaacagc caacgagcgg gatgctccag ggaggatgcg catgtccgtc ggactacccc cgactacccc ccaagcagttc cctttccagc	ggggcgtccc 180 70 gtggagaagt gacgcctacg cactactggc gtgcagctgg gagtcggcca gcatcaggat aaagggcggc ggcgactgct aatcggtatg agtggccggg gtgctgggc gccaaccgca tccctcgtgg atcctggacc gaggagagga	120 240 300 360 420 480 540 600 720 780 840 900 960 1020 1080 1140 1200	nos off

PATENT APPLICATION: US/09/873,367B

DATE: 03/05/2003 TIME: 12:07:54

Input Set : N:\EBONY'S\EP.txt

E>	64252	agcacggcat ggatgacgat ggc	cacaggcc agaaacagat	ctggagaatc g	gaaggttcca	1380	•
		acaaggtgcc cgtggaccct gcc				1440	
		ttctgtacaa ctaccgccat ggt			ggcagggtg	1500	
E>	64258	cccagtctac ccaggatgag gto	cgctgcat ctgccatcct	gactgctcag c	tggatgagg	1560	
E>	64260	agctgggagg tacccctgtc cag	gagccgtg tggtccaagg	caaggagccc g		1620	
E>	64262	tgagcctgtt tggtgggaag ccc	catgatca tctacaaggg	cggcacctcc c		1680	nos.
E>	64264	ggcagacagc ccctgccagc acc	ccgcctct tccaggtccg	cgccaacagc g		1740	11 -
E>	64266	cccgggctgt tgaggtattg cct	taaggetg gtgeaetgaa	ctccaacgat g	_	1800	. 10
		tgaaaacccc ctcagccgcc tac				1860	011
E>	64270	cgggggccca ggagctgctc agg	ggtgctgc gggcccaacc	tgtgcaggtg g		1920	
E>	64272	gcgagccaga tggcttctgg gag	ggccctgg gcgggaaggc	tgcctaccgc a		1980	
E>	64274	ggctgaagga caagaagatg gat	tgcccatc ctcctcgcct	ctttgcctgc t	·	2040	
E>	64276	ttggacgttt tgtgatcgaa gag	ggttcctg gtgagctcat	gcaggaagac c	<i></i>	2100	
E>	64278	atgacgtcat gcttctggac acc	ctgggacc aggtctttgt	ctgggttgga a	9 9	2160	
E>	64280	aagaagaaga aaagacagaa gcc	cttgactt ctgctaagcg	gtacatcgag a		2220	
		ccaatcggga tcggcggacg ccc				2280	
		ttgtgggetg gtteettgge tgg				2340	
E>	64286	ccatggctga gctggctgcc tga	aggagggg cagggcccac	ccatgtcacc g	, , , , ,	2400	
		ttttggaact gtccttccct caa				2460	
		tgtgtgtgt tgtgtgttt gtt			-	2520	
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E>		aataaaaca ttttgaagtg tg				2602	
		<210> SEQ ID NO: 967		•			
		<211> LENGTH: 271				,	
		<212> TYPE: DNA)	
		<213> ORGANISM: Homo sapi	iens 🐧	11	1.11	.]	
		<220> FEATURE:		10	odni nevo		
		<221> NAME/KEY: misc_feat	ture /	's a late	$^{\prime}$ $^{\prime}$		
	70736	<222 LOCATION: (1)(27	71)	LAN FI	0)'		
	70737	CZZ33 OTHER INFORMATION:	n=a,t,g or c	//\omega^	/		
E>		<400> SÉQUENCE: 967		O			
	70741	gateggtttc gccatcatga cgc	cagtgtct cccagtggcc	ctgttctccc t	ggtgggctt	60 120	
$M-Q_{k}$	70742	cacccagatg accatntggg cca	aagggcaa gcaccgcagc	tacctgaagg a	igttccggga	120 100	
·		ctacccgccc ctgcgcatgc cca				180	
		ggctcagccc ctnaacccgg tgg		ggggcccaca g	interceage	240	
	70745	acceggaata aageeegnet gee	cccagtcg g	•		271	

<210> 967 <211> 271 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<222> (1)...(271)
<223> n=a,t,g or c

400> 967

Inserting prochet

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Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence using n or Xaa.

Use of n and/or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to insure a corresponding explanation is presented in the <220> to <223> fields of each sequence resing n or Xaa.

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RAW SEQUENCE LISTING ERROR SUMMARY
PATENT APPLICATION: US/09/873,367B

DATE: 03/05/2003 TIME: 12:07:56

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\03052003\I873367B.raw

Invalid Line Length:

The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:1; Line(s) 10

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/873,367B TIME: 12:07:56

DATE: 03/05/2003

Input Set : N:\EBONY'S\EP.txt

```
L:15 M:270 C: Current Application Number differs, Replaced Current Application No
L:15 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:49 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1 after pos.:180
M:341 Repeated in SeqNo=1
L:82 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2 after pos.:300
M:341 Repeated in SeqNo=2
L:105 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3 after pos.:180
M:341 Repeated in SeqNo=3
L:166 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6 after pos.:300
M:341 Repeated in SeqNo=6
L:199 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:7 after pos.:360
M:341 Repeated in SeqNo=7
L:234 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:8 after pos.:480
M:341 Repeated in SeqNo=8
L:255 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:9 after pos.:120
M:341 Repeated in SeqNo=9
L:342 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:12 after pos.:480
M:341 Repeated in SeqNo=12
L:542 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20 after pos.:540
L:594 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:22 after pos.:480
L:830 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:120 L:4327 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:83 after pos.:1440
L:4826 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:90 after pos.:0
M:341 Repeated in SeqNo=90
L:5793 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:99 after pos.:300
L:8017 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:114 after pos.:1080
M:341 Repeated in SeqNo=114
L:8108 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:115 after pos.:180
L:8146 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:117 after pos.:180
L:8165 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:118 after pos.:0
M:341 Repeated in SeqNo=118
L:8190 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:119 after pos.:0
M:341 Repeated in SeqNo=119
L:8223 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:120 after pos.:180
M:341 Repeated in SeqNo=120
L:8261 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:122 after pos.:0
M:341 Repeated in SeqNo=122
L:8307 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:124 after pos.:0
M:341 Repeated in SeqNo=124
L:8344 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:125 after pos.:300
M:341 Repeated in SeqNo=125
L:8363 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:126 after pos.:60
M:341 Repeated in SeqNo=126
L:11260 M:254 E: No. of Bases conflict, LENGTH:Input:1440 Counted:1430 SEQ:159
M:254 Repeated in SeqNo=159
L:11296 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2520 Found:2510 SEQ:159
L:12744 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:175 after pos.:0
L:12785 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:176 after pos.:360
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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/873,367B

DATE: 03/05/2003 TIME: 12:07:56

Input Set : N:\EBONY'S\EP.txt

Output Set: N:\CRF4\03052003\1873367B.raw

L:12860 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:179 after pos.:360 M:341 Repeated in SeqNo=179 L:12883 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:180 after pos.:180. M:341 Repeated in SeqNo=180 L:12922 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:181 after pos.:420 M:341 Repeated in SegNo=181 L:12949 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:182 after pos.:240 L:14893 M:254 E: No. of Bases conflict, LENGTH:Input:9180 Counted:9170 SEQ:230 M:254 Repeated in SeqNo=230 L:15081 M:252 E: No. of Seq. differs, <211> LENGTH:Input:14770 Found:14760 SEQ:230 L:33234 M:254 E: No. of Bases conflict, LENGTH:Input:240 Counted:230 SEQ:313 M:254 Repeated in SeqNo=313 L:33260 M:252 E: No. of Seq. differs, <211> LENGTH:Input:1008 Found:998 SEQ:313 L:34022 M:254 E: No. of Bases conflict, LENGTH:Input:6240 Counted:6230 SEQ:320 M:254 Repeated in SeqNo=320 L:34032 M:252 E: No. of Seq. differs, <211> LENGTH:Input:6492 Found:6482 SEQ:320 L:54723 M:254 E: No. of Bases conflict, LENGTH:Input:2280 Counted:2270 SEQ:647 / M:254 Repeated in SeqNo=647 L:54901 M:252 E: No. of Seq. differs, <211> LENGTH:Input:7586 Found:7576 SEQ:647 L:63337 M:254 E: No. of Bases conflict, LENGTH:Input:600 Counted:590 SEQ:790 / M:254 Repeated in SeqNo=790 L:63429 M:252 E: No. of Seq. differs, <211> LENGTH:Input:3327 Found:3317 SEQ:790 L:64212 M:254 E: No. of Bases conflict, LENGTH:Input:180 Counted:170 SEQ:810 M:254 Repeated in SegNo=810 L:64294 M:252 E: No. of Seq. differs, <211> LENGTH:Input:2602 Found:2592 SEQ:810 L:70740 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:967 differs:966